

REMARKS

With entry of this amendment, claims 1-22 and 28-47 are pending. Claims 23-27 are cancelled. Claims 1, 11, 26, and 28 are amended. Claims 40-47 are newly added. No new matter is entered.

Formalities

Claims 11 and 26 are amended to correct small typographical errors as requested by the Examiner.

Claims

Previously pending claims 1- 39 were rejected for the Examiner for various reasons. The Applicants have amended independent claims 1 and 28 to more particularly point out and describe features of the invention. The features of the pending claims are not found in the prior art, as detailed below. Additionally, newly added claims 40-47 are also not found in the prior art.

Amended claim 1 includes the feature of “a storage circuit” and “a feedback controller” that controls the driving circuit “based on information stored in the storage circuit.” As described on page 13 of the application, the storage circuit stores data previously sensed by the diodes of the display, or placed there during the manufacture of the display, and the feedback controller can make decisions based on the contents of the stored data. By accessing the desired data and using that in conjunction with a feedback circuit, the display can be managed efficiently. Brightness and gamma calibration can be continuously checked and updated. Pointers shining into the display can be tracked and positions determined. Claims 40-45 also particularly claim components that can perform these functions. These claimed features are not found in Stam, et al., or elsewhere in the prior art, and are therefore patentable, along with the claims that depend from the allowable independent claim 1.

Amended claim 28 includes the features of determining portions of duty cycles allocated to driving and sensing diodes in the display along with driving the display and measuring light sensed by the display. Although Stam does discuss duty cycles, such as in paragraph 51, Stam’s duty cycles are only for driving the diodes, and not for sensing. Stam fails to appreciate that the diodes can also have partial duty cycles in the sense mode, nor would that be an obvious modification to Stam. Scozzafava et al. discuss powering an electroluminescent (EL) display using an AC power source, on Column 4, lines 1-7, but

similarly to Stam, simply points out that there would be no light emitting from the EL display when the devices were reverse biased. Because the features of claim 28 are not taught by nor suggested in the prior art, this claim and those that depend from it are patentable.

Newly added claim 46 describes a position determiner for an OLED display. To the extent that the prior art (Ogawa) describes sensing a position of a pointer device, the claimed invention includes features of having it integrated within the device, and in sensing the energy by the display device itself. For instance Ogawa includes separate hardware 12 as an optical positioning unit to determine where a pointer is shining *on a screen*. Ogawa's pointer is not pointing to the display device (13), but rather to a screen on which the display 13 is generating an image. Embodiments of the invention, conversely, sense energy using diodes on the display itself. Whereas Ogawa's invention necessitates purchasing of additional hardware (12) and the problems of integrating the hardware with the display 13, embodiments of the invention require no such extra purchase or configuration.

Claims 20-22 were rejected based on a combination of Stram in conjunction with Forrest et al, US Publication 2003/0213967 (Forrest). This rejection is traversed because the Forrest publication is not prior art. Forrest's application has a filing date of June 11, 2003, while the present application was filed on December 31, 2001.

Therefore, the Forrest reference is not available as prior art under 35 USC 102(a), (b), or (e), and also cannot be a valid reference under 35 USC 103.

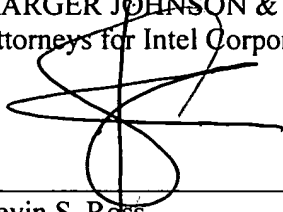
Although the Forrest reference is related to other applications and patents, some of which may be prior art, the particular reference used in the present rejection is not. The Applicants respectfully request that this rejection be withdrawn.

For the foregoing reasons, reconsideration and allowance of claims 1-22 and 28-47 of the application as amended is solicited. The Examiner is encouraged to telephone the undersigned at (503) 222-3613 if it appears that an interview would be helpful in advancing the case.

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Respectfully submitted,

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